

# **DATA FOR**

# VOLATILE ORGANICS SEMI-VOLATILE ORGANICS GC SEMI-VOLATILES METALS

**PROJECT NAME: RFP 422** 

**WESTON SOLUTIONS, INC.** 

**Raritan Plaza Suite 201** 

1090 King Georges Post Road

Edison, NJ - 08837-3703

Phone No: 732-585-4410

**ORDER ID: H5867** 

**ATTENTION:** Smita Sumbaly







Date: 12/12/2016

Dear Smita Sumbaly,

11 soil samples for the RFP 422 project were received on 12/06/2016. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Jordan Hedvat

908-728-3144

Jordan@chemtech.net

Weston Solutions, Inc.

DateShipped: 12/5/2016 CarrierName: FedEx AirbillNo: 7778 6685 6570

# CHAIN OF CUSTODY RECORD

Case #: 422

Contact Name: Peter Lisichenko Contact Phone: 603-512-4350 No: 2-120516-130200-0008

Cooler #: Lab: Chemtech

Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	N002-WD-A5-01-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:35	2	4 oz	4 C	
	N002-WD-A5-01-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:35		8 oz	4 C	\ <u>'</u>
	N002-WD-A5-01-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:35	2		4 C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	N002-WD-A5-01-01	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:35			4 C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	N002-WD-A5-01-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:35			4 C	Y
	N002-WD-A5-01-02	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:40	1	4 oz	4 C	N
	N002-WD-A5-01-02	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:40	1	8 oz	4 C	N
	N002-WD-A5-01-02	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:40	1	8 oz	4 C	N
	N002-WD-A5-01-02	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:40	1	8 oz	4 C	N
	N002-WD-A5-01-02	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:40	1	8 oz	4 C	
	N002-WD-A5-02-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:30	1	4 oz	4 C	N
	N002-WD-A5-02-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:30	1	8 oz	4 C	N
	N002-WD-A5-02-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:30	1	8 oz	4 C	N
	N002-WD-A5-02-01	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:30		8 oz	4 C	<u> </u>
	N002-WD-A5-02-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:30	1	8 oz	4 C	N
	N002-WD-A5-03-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:25	1	4 oz	4 C	N
	N002-WD-A5-03-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:25	1	8 oz		N
	N002-WD-A5-03-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:25	1		4 C	N
	N002-WD-A5-03-01	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:25	1	8 oz 8 oz	4 C	N N

Special Instructions: TAT: 4 days verbal, 2 weeks written.

Need electronic verbal to tim.benton@westonsolutions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	1	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALTSIS	Marginether (WESTON)	12/5/16			
7,000	Je Shours Land	DOOMS			
			·		
	FEDEX	12.6.16	Cleric	10:00	3.8

Weston Solutions, Inc.

DateShipped: 12/5/2016 CarrierName: FedEx AirbillNo: 7778 6685 6570

## CHAIN OF CUSTODY RECORD

Case #: 422

Contact Name: Peter Lisichenko Contact Phone: 603-512-4350 No: 2-120516-130200-0008

Cooler #: Lab: Chemtech

Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	N002-WD-A5-03-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:25	1	8 oz	4 C	N
	N002-WD-A5-04-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:20	1	4 oz	4 C	N
	N002-WD-A5-04-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:20	1	8 oz	4 C	N
	N002-WD-A5-04-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:20	1	8 oz	4 C	
	N002-WD-A5-04-01	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:20	1	8 oz	4 C	N
	N002-WD-A5-04-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:20	1	8 oz	4 C	N
	N002-WD-A5-05-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:15	1	4 oz	4 C	N
	N002-WD-A5-05-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:15	1	8 oz		N
	N002-WD-A5-05-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016	12:15	1		4 C	N
	N002-WD-A5-05-01	N002-WD-A5	TCLP Herbicides	Soil	12/5/2016	12:15	1	8 oz	4 C	N
	N002-WD-A5-05-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:15	1	8 oz	4 C	N
	N002-WD-A5-06-01	N002-WD-A5	TCLP VOCs	Soil	12/5/2016	12:10	1.	8 oz	4 C	N
	N002-WD-A5-06-01	N002-WD-A5	TCLP SVOCs	Soil	12/5/2016	12:10	1	4 oz	4 C	N
	N002-WD-A5-06-01	N002-WD-A5	TCLP Pesticides	Soil	12/5/2016		1	8 oz	4 C	N
	N002-WD-A5-06-01	N002-WD-A5	TCLP Herbicides	Soil		12:10	1	8 oz	4 C	N
	N002-WD-A5-06-01	N002-WD-A5	TCLP Metals (including Hg)	Soil	12/5/2016	12:10	1	8 oz	4 C	N
	N002-WD-OF-02-01	N002-WD-OF	TCLP VOCs	Soil	12/5/2016	12:10	1	8 oz	4 C	N
	N002-WD-OF-02-01	N002-WD-OF	TCLP SVOCs	ļ	12/5/2016	12:05	1	4 oz	4 C	N
	N002-WD-OF-02-01	N002-WD-OF		Soil	12/5/2016	12:05	1	8 oz	4 C	N
	11002 112-01-02-01	14002-44D-OF	TCLP Pesticides	Soil	12/5/2016	12:05	1	8 oz	4 C	N

Special Instructions: TAT: 4 days verbal, 2 weeks written.

Need electronic verbal to tim.benton@westonsolutions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIO	Metay Besiehn, (WESTON)	12/5/16 1700ms	<u> </u>		Sample Contained Open Necelpt
		ti matikan na kata di di di di manada di			
	fooex	10:00	Clare	10:00	3.8

Page 3 of 3

Weston Solutions, Inc.

DateShipped: 12/5/2016 CarrierName: FedEx AirbillNo: 7778 6685 6570

# CHAIN OF CUSTODY RECORD

Case #: 422

Contact Name: Peter Lisichenko Contact Phone: 603-512-4350 No: 2-120516-130200-0008

Cooler #: Lab: Chemtech Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	N002-WD-OF-02-01	N002-WD-OF	TCLP Herbicides	Soil	12/5/2016	12:05	1	8 oz	4 C	N
	N002-WD-OF-02-01	N002-WD-OF	TCLP Metals (including Hg)	Soil	12/5/2016	12:05	1	8 oz	4 C	N
				1						
			1	ichon						
			The state of the s	^						
			Mary Jan //							

Special Instructions: TAT: 4 days verbal, 2 weeks written. Need electronic verbal to tim.benton@westonsolutions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES	fitte 1. March	12/5/16			Tanapa demandir opon redocipe
ALL ANALYSIS	Pelez sechen (WESTON)	1700011			
		10:00	0	10:00	C
	reder	12.6.16	Citeña	12-6-16	3.8



Sample Wt/Vol:

100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-01-01 SDG No.: H5867

Lab Sample ID: H5867-01 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091474.D 1 12/07/16 09:01 12/07/16 17:26 PB95096

510,117.15	•	12/0//1009		12,0,,10	.,0	12,00,0	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	94.4		10 - 130		63%	SPK: 150
13127-88-3	Phenol-d6	89.3		10 - 130		60%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.1		36 - 131		65%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.4		39 - 131		74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		86%	SPK: 150
1718-51-0	Terphenyl-d14	62.1		23 - 130		62%	SPK: 100
INTERNAL STAN	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	170687	6.84				
1146-65-2	Naphthalene-d8	708069	8.12				
15067-26-2	Acenaphthene-d10	384640	9.86				
1517-22-2	Phenanthrene-d10	783453	11.35				
1719-03-5	Chrysene-d12	613450	13.98				
1520-96-3	Perylene-d12	154539	15.4				



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-01

Lab Sample ID: H5867-01

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091474.D 1 12/07/16 09:01 12/07/16 17:26 PB95096

CAS Number Parameter Conc. Qualifier MDL LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-01

Lab Sample ID: H5867-01

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017275.D 1 12/07/16 09:10 12/12/16 11:49 PB95117

CAS Number	Parameter	Conc.	Qualifie	r MDL	LOD LO	Q / CRQL	Units
TARGETS							
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	277		43 - 172		56%	SPK: 500

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-01-01 H5867 Lab Sample ID: H5867-01 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	a. I	OF MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7440-39-3	Barium	559		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:12	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 15:40	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



PD037162.D

57-74-9

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date Collected:

Date Received:

SDG No.:

% Moisture:

12/07/16 18:31

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

PB95109

5

ug/L

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-01

Lab Sample ID: H5867-01

Analytical Method: SW8081

Sample Wt/Vol: 100 Units: mLFinal Vol: 10000 иL

TCLP Pesticide Soil Aliquot Vol: иL Test:

**Extraction Type:** Injection Volume:

1

1.0 PH: GPC Factor:

Chlordane

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID 12/07/16 10:12

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 58-89-9 gamma-BHC (Lindane) 0.055 U 0.055 0.1 0.5 ug/L 76-44-8 Heptachlor 0.069 U 0.069 0.1 0.5 ug/L 1024-57-3 Heptachlor epoxide 0.067 U 0.0670.1 0.5 ug/L 72-20-8 Endrin 0.058 U 0.058 0.1 0.5 ug/L 72-43-5 Methoxychlor 0.05 U 0.05 0.1 0.5 ug/L 8001-35-2 IJ Toxaphene 1 1 1 5 ug/L

**SURROGATES** 2051-24-3 Decachlorobiphenyl 18.2 10 - 192 91% SPK: 20 877-09-8 Tetrachloro-m-xylene 18.6 10 - 172 93% SPK: 20

U

#### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



File ID/Qc Batch:

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-01

Lab Sample ID: H5867-01

SW8260 Analytical Method:

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

Prep Batch ID

uL

Prep Date

VN037490.D 5 12/07/16 16:54 VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.5		61 - 141		89%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		58 - 135		86%	SPK: 50
INTERNAL STAN	NDARDS						
363-72-4	Pentafluorobenzene	1607690	7.86				
540-36-3	1,4-Difluorobenzene	2267590	8.78				
3114-55-4	Chlorobenzene-d5	1880120	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	760067	13.52				

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements



Sample Wt/Vol:

100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-01-02 SDG No.: H5867

Lab Sample ID: H5867-04 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091492.D 1 12/07/16 09:01 12/08/16 01:49 PB95096

51071172.5	-	12/0//10 0/	.01	12,00,100	, ,	12,00,0	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	93.3		10 - 130		62%	SPK: 150
13127-88-3	Phenol-d6	81.8		10 - 130		55%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.8		36 - 131		71%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.5		39 - 131		89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		84%	SPK: 150
1718-51-0	Terphenyl-d14	85.4		23 - 130		85%	SPK: 100
INTERNAL STAN	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	150392	6.84				
1146-65-2	Naphthalene-d8	570673	8.12				
15067-26-2	Acenaphthene-d10	283302	9.86				
1517-22-2	Phenanthrene-d10	566310	11.35				
1719-03-5	Chrysene-d12	355445	13.98				
1520-96-3	Perylene-d12	127132	15.4				



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-02

Lab Sample ID: H5867-04

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091492.D 1 12/07/16 09:01 12/08/16 01:49 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



PP017276.D

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date Collected:

Date Received:

12/12/16 12:15

12/05/16

12/06/16

H5867

PB95117

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-A5-01-02

Lab Sample ID: H5867-04 Matrix: **TCLP** 

Analytical Method: SW8151A % Moisture: 100 Decanted:

Final Vol: Sample Wt/Vol: 100 Units: mL10000 иL

Test: TCLP Herbicide Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: GPC Factor:

Prep Batch ID File ID/Qc Batch: Dilution: Prep Date Date Analyzed 12/07/16 09:10

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 94-75-7 2.4-D 3.5 U 3.5 5 20 ug/L 93-72-1 2,4,5-TP (Silvex) 1.5 U 1.5 5 20 ug/L **SURROGATES** 19719-28-9 2,4-DCAA 364 43 - 172 73% SPK: 500

#### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-01-02 H5867 Lab Sample ID: H5867-04 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	a. D	F MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7440-39-3	Barium	544		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7440-47-3	Chromium	14.3	J	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:25	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:05	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Date Collected:

Date Received:

12/05/16

12/06/16

H5867

**TCLP** 

Decanted:

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-02 SDG No.:

Lab Sample ID: H5867-04 Matrix:

Analytical Method: SW8081 % Moisture: 100

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Pesticide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PD037165.D 1 12/07/16 10:12 12/07/16 19:13 PB95109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD LO	Q / CRQL	Units
TARGETS							
58-89-9	gamma-BHC (Lindane)	0.055	U	0.055	0.1	0.5	ug/L
76-44-8	Heptachlor	0.069	U	0.069	0.1	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.067	U	0.067	0.1	0.5	ug/L
72-20-8	Endrin	0.058	U	0.058	0.1	0.5	ug/L
72-43-5	Methoxychlor	0.05	U	0.05	0.1	0.5	ug/L
8001-35-2	Toxaphene	1	U	1	1	5	ug/L
57-74-9	Chlordane	1	U	1	1	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	18.8		10 - 192		94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		10 - 172		91%	SPK: 20

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



File ID/Qc Batch:

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-01-02

Lab Sample ID: H5867-04

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

Dilution:

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Date Analyzed

Level:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

Prep Batch ID

uL

VN037493.D 5 12/07/16 18:15 VN120716

Prep Date

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.9		61 - 141		88%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.4		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.7		58 - 135		85%	SPK: 50
INTERNAL STA	NDARDS						
363-72-4	Pentafluorobenzene	1578760	7.86				
540-36-3	1,4-Difluorobenzene	2229560	8.78				
3114-55-4	Chlorobenzene-d5	1838950	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	757557	13.52				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Sample Wt/Vol:

100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-02-01 SDG No.: H5867
Lab Sample ID: H5867-05 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091493.D 1 12/07/16 09:01 12/08/16 02:17 PB95096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	85		10 - 130		57%	SPK: 150
13127-88-3	Phenol-d6	80.6		10 - 130		54%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.1		36 - 131		70%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		39 - 131		78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		25 - 155		72%	SPK: 150
1718-51-0	Terphenyl-d14	79		23 - 130		79%	SPK: 100
INTERNAL STA	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	162955	6.84				
1146-65-2	Naphthalene-d8	616453	8.12				
15067-26-2	Acenaphthene-d10	343900	9.86				
1517-22-2	Phenanthrene-d10	570712	11.35				
1719-03-5	Chrysene-d12	402457	13.98				
1520-96-3	Perylene-d12	335686	15.4				



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-02-01

Lab Sample ID: H5867-05

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091493.D 1 12/07/16 09:01 12/08/16 02:17 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-02-01

Lab Sample ID: H5867-05

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017277.D 1 12/07/16 09:10 12/12/16 12:42 PB95117

CAS Number	Parameter	Conc.	Qualif	ier MDL	LOD LO	Q / CRQL	Units
TARGETS							
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	348		43 - 172		70%	SPK: 500

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-02-01 H5867 Lab Sample ID: H5867-05 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qu	a. I	OF MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7440-39-3	Barium	565		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:27	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:18	SW6010

Color Before: Colorless Clarity Before: Texture: Clear Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Sample Wt/Vol:

PD037166.D

72-20-8

72-43-5

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date Collected:

Date Received:

Final Vol:

12/07/16 19:27

12/05/16

12/06/16

10000

0.1

0.1

иL

PB95109

0.5

0.5

ug/L

ug/L

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-A5-02-01 H5867

mL

Lab Sample ID: H5867-05 **TCLP** Matrix:

Analytical Method: SW8081 % Moisture: 100 Decanted:

TCLP Pesticide Soil Aliquot Vol: иL Test:

**Extraction Type:** Injection Volume:

0.058

0.05

1.0 PH: GPC Factor:

Endrin

Methoxychlor

100

Units:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID 12/07/16 10:12

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 58-89-9 gamma-BHC (Lindane) 0.055 U 0.055 0.1 0.5 ug/L 76-44-8 Heptachlor 0.069 U 0.069 0.1 0.5 ug/L 1024-57-3 Heptachlor epoxide 0.067 U 0.0670.1 0.5 ug/L

0.058

0.05

U

U

8001-35-2 IJ Toxaphene 1 1 1 5 ug/L 57-74-9 Chlordane U 1 5 ug/L **SURROGATES** 2051-24-3 Decachlorobiphenyl 18.5 10 - 192 93% SPK: 20 877-09-8 Tetrachloro-m-xylene 19.2 10 - 172 SPK: 20 96%

#### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



File ID/Qc Batch:

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-02-01

Lab Sample ID: H5867-05

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

Prep Batch ID

uL

VN037494.D 5 12/07/16 18:42 VN120716

Prep Date

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.3		61 - 141		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.6		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4		58 - 135		87%	SPK: 50
INTERNAL STAN	NDARDS						
363-72-4	Pentafluorobenzene	1540090	7.86				
540-36-3	1,4-Difluorobenzene	2160750	8.78				
3114-55-4	Chlorobenzene-d5	1800380	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	757825	13.52				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

<sup>\* =</sup> Values outside of QC limits

D = Dilution

<sup>() =</sup> Laboratory InHouse Limit



100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-03-01 SDG No.: H5867 Lab Sample ID: H5867-06 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Sample Wt/Vol: Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: N Level: Decanted: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

BF091504.D 1 12/07/16 09:01 12/08/16 16:02 PB95096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	110		10 - 130		70%	SPK: 150
13127-88-3	Phenol-d6	85.8		10 - 130		57%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.1		36 - 131		74%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		39 - 131		104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	170		25 - 155		113%	SPK: 150
1718-51-0	Terphenyl-d14	96.8		23 - 130		97%	SPK: 100
INTERNAL STA	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	161218	6.82				
1146-65-2	Naphthalene-d8	635505	8.1				
15067-26-2	Acenaphthene-d10	274407	9.85				
1517-22-2	Phenanthrene-d10	632914	11.34				
1719-03-5	Chrysene-d12	403531	13.97				
1520-96-3	Perylene-d12	28759	15.37				



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-03-01

Lab Sample ID: H5867-06

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091504.D 1 12/07/16 09:01 12/08/16 16:02 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



PP017278.D

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date Collected:

Date Received:

12/12/16 13:08

12/05/16

12/06/16

PB95117

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-A5-03-01 H5867

Lab Sample ID: H5867-06 Matrix: **TCLP** 

Analytical Method: SW8151A % Moisture: 100 Decanted: Sample Wt/Vol: Final Vol: 100 Units: mL10000 иL

Test: TCLP Herbicide Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: GPC Factor:

Prep Batch ID File ID/Qc Batch: Dilution: Prep Date Date Analyzed 12/07/16 09:10

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 94-75-7 2.4-D 3.5 U 3.5 5 20 ug/L 93-72-1 2,4,5-TP (Silvex) 1.5 U 1.5 5 20 ug/L **SURROGATES** 19719-28-9 2,4-DCAA 345 43 - 172 69% SPK: 500

#### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-03-01 H5867 Lab Sample ID: H5867-06 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	a. E	OF MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7440-39-3	Barium	981		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7440-43-9	Cadmium	9.15	J	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:29	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:22	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Date Collected:

Date Received:

SDG No.:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-03-01

Lab Sample ID: H5867-06

Analytical Method: SW8081 % Moisture:

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Pesticide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PD037167.D 1 12/07/16 10:12 12/07/16 19:40 PB95109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD LO	Q / CRQL	Units	
TARGETS								
58-89-9	gamma-BHC (Lindane)	0.055	U	0.055	0.1	0.5	ug/L	
76-44-8	Heptachlor	0.069	U	0.069	0.1	0.5	ug/L	
1024-57-3	Heptachlor epoxide	0.067	U	0.067	0.1	0.5	ug/L	
72-20-8	Endrin	0.058	U	0.058	0.1	0.5	ug/L	
72-43-5	Methoxychlor	0.05	U	0.05	0.1	0.5	ug/L	
8001-35-2	Toxaphene	1	U	1	1	5	ug/L	
57-74-9	Chlordane	1	U	1	1	5	ug/L	
SURROGATES								
2051-24-3	Decachlorobiphenyl	21.7		10 - 192		108%	SPK: 20	
877-09-8	Tetrachloro-m-xylene	21.8		10 - 172		109%	SPK: 20	

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-03-01

Lab Sample ID: H5867-06

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN037495.D 5 12/07/16 19:09 VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.3		61 - 141		87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	48.5		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		58 - 135		89%	SPK: 50
INTERNAL STAN	DARDS						
363-72-4	Pentafluorobenzene	1602960	7.86				
540-36-3	1,4-Difluorobenzene	2269290	8.78				
3114-55-4	Chlorobenzene-d5	1907630	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	795887	13.52				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

<sup>\* =</sup> Values outside of QC limits

D = Dilution

<sup>() =</sup> Laboratory InHouse Limit



100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-04-01 SDG No.: H5867 Lab Sample ID: H5867-07 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Sample Wt/Vol: Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: N Level: Decanted: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

BF091505.D 1 12/07/16 09:01 12/08/16 16:30 PB95096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	110		10 - 130		75%	SPK: 150
13127-88-3	Phenol-d6	95.7		10 - 130		64%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		36 - 131		75%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		39 - 131		88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		25 - 155		97%	SPK: 150
1718-51-0	Terphenyl-d14	75.2		23 - 130		75%	SPK: 100
INTERNAL STA	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137807	6.82				
1146-65-2	Naphthalene-d8	593277	8.1				
15067-26-2	Acenaphthene-d10	290598	9.85				
1517-22-2	Phenanthrene-d10	633248	11.34				
1719-03-5	Chrysene-d12	528421	13.97				
1520-96-3	Perylene-d12	53960	15.37				



# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-04-01

Lab Sample ID: H5867-07

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091505.D 1 12/07/16 09:01 12/08/16 16:30 PB95096

CAS Number Parameter Conc. Qualifier MDL LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-04-01

Lab Sample ID: H5867-07

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017279.D 1 12/07/16 09:10 12/12/16 13:35 PB95117

CAS Number	Parameter	Conc.	Qualifie	r MDL	LOD LO	Q / CRQL	Units
TARGETS							
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	358		43 - 172		72%	SPK: 500

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-04-01 H5867 Lab Sample ID: H5867-07 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	a. E	OF MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7440-39-3	Barium	517		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:31	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:27	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

## **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-04-01

Lab Sample ID: H5867-07

Analytical Method: SW8081

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Pesticide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PD037191.D 1 12/07/16 10:12 12/08/16 14:22 PB95109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD LOQ/CRQL		Units
TARGETS							
58-89-9	gamma-BHC (Lindane)	0.055	U	0.055	0.1	0.5	ug/L
76-44-8	Heptachlor	0.069	U	0.069	0.1	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.067	U	0.067	0.1	0.5	ug/L
72-20-8	Endrin	0.058	U	0.058	0.1	0.5	ug/L
72-43-5	Methoxychlor	0.05	U	0.05	0.1	0.5	ug/L
8001-35-2	Toxaphene	1	U	1	1	5	ug/L
57-74-9	Chlordane	1	U	1	1	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.1		10 - 192		110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		10 - 172		102%	SPK: 20

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



File ID/Qc Batch:

VN037496.D

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-04-01

Lab Sample ID: H5867-07

SW8260 Analytical Method:

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

5

Dilution:

Prep Date Date Analyzed

12/07/16 19:36

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

Prep Batch ID

TCLP VOA

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

uL

VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		61 - 141		85%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		58 - 135		87%	SPK: 50
INTERNAL STA	NDARDS						
363-72-4	Pentafluorobenzene	1577460	7.86				
540-36-3	1,4-Difluorobenzene	2199800	8.78				
3114-55-4	Chlorobenzene-d5	1849770	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	759717	13.52				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

<sup>\* =</sup> Values outside of QC limits

D = Dilution

<sup>() =</sup> Laboratory InHouse Limit



Sample Wt/Vol:

100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-A5-05-01 SDG No.: H5867

Lab Sample ID: H5867-08 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091506.D 1 12/07/16 09:01 12/08/16 16:58 PB95096

BI 07 IC 00.B	•	12/0//10/09	.01	12,00,10		12,00,0	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	95.7		10 - 130		64%	SPK: 150
13127-88-3	Phenol-d6	91.9		10 - 130		61%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.2		36 - 131		83%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		39 - 131		103%	SPK: 100
118-79-6	2,4,6-Tribromophenol	170		25 - 155		113%	SPK: 150
1718-51-0	Terphenyl-d14	110		23 - 130		110%	SPK: 100
INTERNAL STAN	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	202569	6.82				
1146-65-2	Naphthalene-d8	791774	8.1				
15067-26-2	Acenaphthene-d10	314880	9.85				
1517-22-2	Phenanthrene-d10	831096	11.34				
1719-03-5	Chrysene-d12	436593	13.97				
1520-96-3	Perylene-d12	31191	15.37				



Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-05-01

Lab Sample ID: H5867-08

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091506.D 1 12/07/16 09:01 12/08/16 16:58 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-05-01

Lab Sample ID: H5867-08

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017280.D 1 12/07/16 09:10 12/12/16 14:01 PB95117

CAS Number	Parameter	Conc. Qualifier MDL		ier MDL	LOD LO	OQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	312		43 - 172		63%	SPK: 500

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-05-01 H5867 Lab Sample ID: H5867-08 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	a. E	F MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7440-39-3	Barium	564		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:33	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:31	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-05-01

Lab Sample ID: H5867-08

Analytical Method: SW8081

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Pesticide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PD037192.D 1 12/07/16 10:12 12/08/16 14:35 PB95109

CAS Number	Parameter	Conc. Qualifier		MDL	LOD LOQ/CRQL		Units	
TARGETS								
58-89-9	gamma-BHC (Lindane)	0.055	U	0.055	0.1	0.5	ug/L	
76-44-8	Heptachlor	0.069	U	0.069	0.1	0.5	ug/L	
1024-57-3	Heptachlor epoxide	0.067	U	0.067	0.1	0.5	ug/L	
72-20-8	Endrin	0.058	U	0.058	0.1	0.5	ug/L	
72-43-5	Methoxychlor	0.05	U	0.05	0.1	0.5	ug/L	
8001-35-2	Toxaphene	1	U	1	1	5	ug/L	
57-74-9	Chlordane	1	U	1	1	5	ug/L	
SURROGATES								
2051-24-3	Decachlorobiphenyl	22.1		10 - 192		110%	SPK: 20	
877-09-8	Tetrachloro-m-xylene	20.2		10 - 172		101%	SPK: 20	

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-05-01

Lab Sample ID: H5867-08

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN037497.D 5 12/07/16 20:03 VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.4		61 - 141		87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		58 - 135		88%	SPK: 50
INTERNAL STAN	IDARDS						
363-72-4	Pentafluorobenzene	1566530	7.86				
540-36-3	1,4-Difluorobenzene	2199770	8.77				
3114-55-4	Chlorobenzene-d5	1844550	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	768831	13.52				

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements



Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID:N002-WD-A5-06-01SDG No.:H5867Lab Sample ID:H5867-09Matrix:TCLPAnalytical Method:SW8270% Moisture:100

Sample Wt/Vol: 100 Units: mL Final Vol: 1000

Soil Aliquot Vol: uL Test: TCLP BNA

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091507.D 1 12/07/16 09:01 12/08/16 17:25 PB95096

B1 07 10 07 .B	•	12/0//10 0/		12,00,10	.,0	12,00,0	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	120		10 - 130		78%	SPK: 150
13127-88-3	Phenol-d6	99.8		10 - 130		67%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.9		36 - 131		74%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.7		39 - 131		83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		90%	SPK: 150
1718-51-0	Terphenyl-d14	71.7		23 - 130		72%	SPK: 100
INTERNAL STA	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142352	6.82				
1146-65-2	Naphthalene-d8	610221	8.1				
15067-26-2	Acenaphthene-d10	344208	9.85				
1517-22-2	Phenanthrene-d10	663999	11.34				
1719-03-5	Chrysene-d12	584591	13.97				
1520-96-3	Perylene-d12	121489	15.37				



Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-06-01

Lab Sample ID: H5867-09

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091507.D 1 12/07/16 09:01 12/08/16 17:25 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



PP017281.D

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date Collected:

Date Received:

12/12/16 14:28

12/05/16

12/06/16

PB95117

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-A5-06-01 H5867

Lab Sample ID: H5867-09 Matrix: **TCLP** 

Analytical Method: SW8151A % Moisture: 100 Decanted: Final Vol: Sample Wt/Vol: 100 Units: mL10000 иL

Test: TCLP Herbicide Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: GPC Factor:

Prep Batch ID File ID/Qc Batch: Dilution: Prep Date Date Analyzed 12/07/16 09:10

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 94-75-7 2.4-D 3.5 U 3.5 5 20 ug/L 93-72-1 2,4,5-TP (Silvex) 1.5 U 1.5 5 20 ug/L **SURROGATES** 19719-28-9 2,4-DCAA 376 43 - 172 75% SPK: 500

### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-A5-06-01 H5867 Lab Sample ID: H5867-09 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	ı. D	F MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7440-39-3	Barium	560		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7440-47-3	Chromium	45.7	J	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7439-92-1	Lead	64		1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:35	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:35	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-06-01

Lab Sample ID: H5867-09

Analytical Method: SW8081

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Pesticide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PD037170.D 1 12/07/16 10:12 12/07/16 20:22 PB95109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD LOQ/CRQL		Units	
TARGETS								
58-89-9	gamma-BHC (Lindane)	0.055	U	0.055	0.1	0.5	ug/L	
76-44-8	Heptachlor	0.069	U	0.069	0.1	0.5	ug/L	
1024-57-3	Heptachlor epoxide	0.067	U	0.067	0.1	0.5	ug/L	
72-20-8	Endrin	0.058	U	0.058	0.1	0.5	ug/L	
72-43-5	Methoxychlor	0.05	U	0.05	0.1	0.5	ug/L	
8001-35-2	Toxaphene	1	U	1	1	5	ug/L	
57-74-9	Chlordane	1	U	1	1	5	ug/L	
SURROGATES								
2051-24-3	Decachlorobiphenyl	21.3		10 - 192		106%	SPK: 20	
877-09-8	Tetrachloro-m-xylene	21.1		10 - 172		105%	SPK: 20	

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-A5-06-01

Lab Sample ID: H5867-09

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

Level: LOW

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

File ID/Qc Batch:

Dilution:

Prep Date

Date Analyzed

Prep Batch ID

TCLP VOA

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

uL

VN037498.D 5

12/07/16 20:30

VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.1		61 - 141		86%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.5		58 - 135		87%	SPK: 50
INTERNAL STA	NDARDS						
363-72-4	Pentafluorobenzene	1586310	7.86				
540-36-3	1,4-Difluorobenzene	2212280	8.78				
3114-55-4	Chlorobenzene-d5	1854570	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	769320	13.52				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

<sup>\* =</sup> Values outside of QC limits

D = Dilution

<sup>() =</sup> Laboratory InHouse Limit



Sample Wt/Vol:

100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-OF-02-01 SDG No.: H5867

Lab Sample ID: H5867-10 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091508.D 1 12/07/16 09:01 12/08/16 17:53 PB95096

DI 091308.D	1	12/07/10 05	7.01	12/06/10	17.33	1 1 1 2 3 0 3 0	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	160		10 - 130		104%	SPK: 150
13127-88-3	Phenol-d6	100		10 - 130		70%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.5		36 - 131		77%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.5		39 - 131		72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		78%	SPK: 150
1718-51-0	Terphenyl-d14	73.1		23 - 130		73%	SPK: 100
INTERNAL STA	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140616	6.82				
1146-65-2	Naphthalene-d8	601955	8.1				
15067-26-2	Acenaphthene-d10	359662	9.85				
1517-22-2	Phenanthrene-d10	617984	11.34				
1719-03-5	Chrysene-d12	580978	13.97				
1520-96-3	Perylene-d12	447236	15.39				



Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-02-01

Lab Sample ID: H5867-10

Analytical Method: SW8270

Sample Wt/Vol: 100 Units: mL

Soil Aliquot Vol: uL

Extraction Type: Decanted: N Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091508.D 1 12/07/16 09:01 12/08/16 17:53 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-02-01

Lab Sample ID: H5867-10

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017282.D 1 12/07/16 09:10 12/12/16 14:54 PB95117

CAS Number	umber Parameter		Conc. Qualifier MDL		LOD LO	OQ / CRQL	Units	
TARGETS								
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L	
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L	
SURROGATES								
19719-28-9	2,4-DCAA	314		43 - 172		63%	SPK: 500	

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-OF-02-01 H5867 Lab Sample ID: H5867-10 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qua	ı. D	F MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7440-39-3	Barium	1040		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7440-47-3	Chromium	11	U	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:38	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:39	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



PD037171.D

Date Collected:

Date Received:

12/07/16 20:36

12/05/16

12/06/16

PB95109

H5867

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-OF-02-01

Lab Sample ID: H5867-10 **TCLP** Matrix:

Analytical Method: SW8081 % Moisture: 100 Decanted:

Sample Wt/Vol: 100 Units: mLFinal Vol: 10000 иL

TCLP Pesticide Soil Aliquot Vol: иL Test:

**Extraction Type:** Injection Volume:

1.0 PH: GPC Factor:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID 12/07/16 10:12

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 58-89-9 gamma-BHC (Lindane) 0.055 U 0.055 0.1 0.5 ug/L 76-44-8 Heptachlor 0.069 U 0.069 0.1 0.5 ug/L 1024-57-3 Heptachlor epoxide 0.067 U 0.0670.1 0.5 ug/L 72-20-8 Endrin 0.058 U 0.058 0.1 0.5 ug/L 72-43-5 Methoxychlor 0.05 U 0.05 0.1 0.5 ug/L 8001-35-2 IJ Toxaphene 1 1 1 5 ug/L 57-74-9 Chlordane U 1 5 ug/L **SURROGATES** 2051-24-3 Decachlorobiphenyl 20.2 10 - 192 101% SPK: 20 877-09-8 Tetrachloro-m-xylene 21.2 10 - 172 106% SPK: 20

### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-02-01

Lab Sample ID: H5867-10

SW8260 Analytical Method:

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25 Level:

Test:

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

5000

LOW

TCLP VOA

uL

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN037499.D 5 12/07/16 20:57 VN120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.7	U	1.7	2.5	25	ug/L
75-35-4	1,1-Dichloroethene	2.4	U	2.4	2.5	25	ug/L
78-93-3	2-Butanone	6.6	U	6.6	12.5	130	ug/L
56-23-5	Carbon Tetrachloride	1	U	1	2.5	25	ug/L
67-66-3	Chloroform	1.7	U	1.7	2.5	25	ug/L
71-43-2	Benzene	1.6	U	1.6	2.5	25	ug/L
107-06-2	1,2-Dichloroethane	2.4	U	2.4	3.8	25	ug/L
79-01-6	Trichloroethene	1.4	U	1.4	2.5	25	ug/L
127-18-4	Tetrachloroethene	1.4	U	1.4	2.5	25	ug/L
108-90-7	Chlorobenzene	2.5	U	2.5	2.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.8		61 - 141		88%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		69 - 133		99%	SPK: 50
2037-26-5	Toluene-d8	48.8		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		58 - 135		88%	SPK: 50
INTERNAL STAN	NDARDS						
363-72-4	Pentafluorobenzene	1558240	7.86				
540-36-3	1,4-Difluorobenzene	2193150	8.78				
3114-55-4	Chlorobenzene-d5	1838270	11.58				
3855-82-1	1,4-Dichlorobenzene-d4	784939	13.52				

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements



100

Units:

mL

# **Report of Analysis**

Client: Weston Solutions, Inc. Date Collected: 12/05/16

Project: RFP 422 Date Received: 12/06/16

Client Sample ID: N002-WD-OF-01-01 SDG No.: H5867 Lab Sample ID: H5867-11 Matrix: TCLP

Analytical Method: SW8270 % Moisture: 100

Sample Wt/Vol: Soil Aliquot Vol: uL Test: TCLP BNA

Final Vol:

1000

uL

Extraction Type: N Level: Decanted: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

BF091509.D 1 12/07/16 09:01 12/08/16 18:21 PB95096

Bi 0) ico, B	•						
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	10	U	10	10	100	ug/L
106-46-7	1,4-Dichlorobenzene	2	U	2	10	100	ug/L
95-48-7	2-Methylphenol	2.4	U	2.4	10	100	ug/L
65794-96-9	3+4-Methylphenols	3.8	U	3.8	10	100	ug/L
67-72-1	Hexachloroethane	2.5	U	2.5	10	100	ug/L
98-95-3	Nitrobenzene	6.8	U	6.8	10	100	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	10	100	ug/L
88-06-2	2,4,6-Trichlorophenol	5.6	U	5.6	10	100	ug/L
95-95-4	2,4,5-Trichlorophenol	4	U	4	10	100	ug/L
121-14-2	2,4-Dinitrotoluene	10	U	10	10	100	ug/L
118-74-1	Hexachlorobenzene	1.8	U	1.8	10	100	ug/L
87-86-5	Pentachlorophenol	10	U	10	10	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	84.2		10 - 130		56%	SPK: 150
13127-88-3	Phenol-d6	100		10 - 130		69%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.4		36 - 131		85%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.3		39 - 131		79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		81%	SPK: 150
1718-51-0	Terphenyl-d14	66.7		23 - 130		67%	SPK: 100
INTERNAL STAN	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	182107	6.82				
1146-65-2	Naphthalene-d8	709002	8.1				
15067-26-2	Acenaphthene-d10	372932	9.85				
1517-22-2	Phenanthrene-d10	638527	11.34				
1719-03-5	Chrysene-d12	623742	13.97				
1520-96-3	Perylene-d12	483125	15.39				



Analytical Method:

# **Report of Analysis**

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

1000

LOW

TCLP BNA

uL

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-01-01

Lab Sample ID: H5867-11

Sample Wt/Vol: 100 Units:

Soil Aliquot Vol: uL

SW8270

Extraction Type: Decanted: N Level:

mL

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BF091509.D 1 12/07/16 09:01 12/08/16 18:21 PB95096

CAS Number Parameter Conc. Qualifier MDL LOD LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Date Collected:

Date Received:

SDG No.:

% Moisture:

Matrix:

12/05/16

12/06/16

H5867

**TCLP** 

100

Decanted:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-01-01

Lab Sample ID: H5867-11

Analytical Method: SW8151A

Sample Wt/Vol: 100 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: TCLP Herbicide

Extraction Type: Injection Volume:

GPC Factor: 1.0 PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PP017283.D 1 12/07/16 09:10 12/12/16 15:21 PB95117

CAS Number	Parameter	Conc.	Qualifie	r MDL	LOD LOQ/CRQL		Units
TARGETS							
94-75-7	2,4-D	3.5	U	3.5	5	20	ug/L
93-72-1	2,4,5-TP (Silvex)	1.5	U	1.5	5	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	244		43 - 172		49%	SPK: 500

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



# **Report of Analysis**

Client: Date Collected: 12/05/16 Weston Solutions, Inc. Project: RFP 422 Date Received: 12/06/16 Client Sample ID: SDG No.: N002-WD-OF-01-01 H5867 Lab Sample ID: H5867-11 Matrix: **TCLP** % Solid: Level (low/med): low 0

Cas	Parameter	Conc.	Qu	a. D	F MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	25	U	1	25	25.0	100	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7440-39-3	Barium	1070		1	40	125	500	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7440-43-9	Cadmium	5	U	1	5	7.5	30	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7440-47-3	Chromium	11.3	J	1	11	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7439-92-1	Lead	15	U	1	15	15.0	60	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7439-97-6	Mercury	1	U	1	1	1.0	2	ug/L	12/07/16 11:52	12/08/16 11:40	SW7470A
7782-49-2	Selenium	48	U	1	48	50.0	100	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010
7440-22-4	Silver	12.5	U	1	12.5	12.5	50	ug/L	12/07/16 11:30	12/07/16 16:44	SW6010

Color Before: Colorless Clarity Before: Texture: Clear
Color After: Colorless Clarity After: Artifacts: Clear

Comments: TCLP-FULL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



PD037172.D

8001-35-2

57-74-9

Date Collected:

Date Received:

12/07/16 20:50

12/05/16

12/06/16

PB95109

5

5

ug/L

ug/L

# **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

SDG No.: Client Sample ID: N002-WD-OF-01-01 H5867

Lab Sample ID: H5867-11 **TCLP** Matrix:

Analytical Method: SW8081 % Moisture: 100 Decanted:

Sample Wt/Vol: 100 Units: mLFinal Vol: 10000 иL

TCLP Pesticide Soil Aliquot Vol: иL Test:

**Extraction Type:** Injection Volume:

1

1

1.0 PH: GPC Factor:

Toxaphene

Chlordane

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID 12/07/16 10:12

**CAS Number** Parameter Conc. Qualifier MDL LOD LOQ/CRQL Units **TARGETS** 58-89-9 gamma-BHC (Lindane) 0.055 U 0.055 0.1 0.5 ug/L 76-44-8 Heptachlor 0.069 U 0.069 0.1 0.5 ug/L 1024-57-3 Heptachlor epoxide 0.067 U 0.0670.1 0.5 ug/L 72-20-8 Endrin 0.058 U 0.058 0.1 0.5 ug/L 72-43-5 Methoxychlor 0.05 U 0.05 0.1 0.5 ug/L

1

**SURROGATES** 2051-24-3 Decachlorobiphenyl 19.7 10 - 192 99% SPK: 20 877-09-8 Tetrachloro-m-xylene 20.7 10 - 172 103% SPK: 20

IJ

U

### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

1



File ID/Qc Batch:

### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 422

Client Sample ID: N002-WD-OF-01-01

Lab Sample ID: H5867-11

Analytical Method: SW8260

Sample Wt/Vol: 5 Units: mL

Soil Aliquot Vol: uL

GC Column: RXI-624 ID: 0.25

Dilution:

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

Prep Batch ID

98%

97%

89%

12/05/16

12/06/16

H5867

TCLP

100

5000

LOW

TCLP VOA

uL

SPK: 50

SPK: 50

SPK: 50

Date Analyzed 12/07/16 21:24

5 VN037500.D VN120716 **CAS Number Parameter** Conc. Qualifier MDL LOD LOQ / CRQL Units **TARGETS** 75-01-4 Vinyl Chloride 1.7 U 1.7 2.5 25 ug/L 75-35-4 1,1-Dichloroethene 2.4 U 2.4 2.5 25 ug/L 78-93-3 6.6 U 6.6 12.5 130 2-Butanone ug/L U 56-23-5 Carbon Tetrachloride 1 2.5 25 1 ug/L 67-66-3 Chloroform 1.7 U 1.7 2.5 25 ug/L 25 U 2.5 71-43-2 Benzene 1.6 1.6 ug/L 107-06-2 1,2-Dichloroethane 2.4 U 2.4 3.8 25 ug/L U 2.5 79-01-6 Trichloroethene 1.4 25 ug/L 1.4 U 2.5 127-18-4 Tetrachloroethene 1.4 1.4 25 ug/L U 108-90-7 Chlorobenzene 2.5 2.5 2.5 25 ug/L SURROGATES 1.2-Dichloroethane-d4 17060-07-0 42.9 61 - 14186% SPK: 50

Prep Date

49.1

48.7

44.4

INTERNAL.	<b>STANDARDS</b>
III I EINIAL	SIANDANDS

1868-53-7

2037-26-5

460-00-4

INTERNAL STANDARDS								
363-72-4	Pentafluorobenzene	1578520	7.86					
540-36-3	1,4-Difluorobenzene	2205020	8.78					
3114-55-4	Chlorobenzene-d5	1856350	11.58					
3855-82-1	1,4-Dichlorobenzene-d4	785412	13.52					

Dibromofluoromethane

4-Bromofluorobenzene

Toluene-d8

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

69 - 133

65 - 126

58 - 135

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution